NEW MILLENNIUM PROJECT CONFIGURATION CHANGE REQUEST

PROGRAM EO-1		TITLE CHANGES TO EO-1 GPS ICD-25									
CCR NO00	14	ORIGINATOR D. Quinn/GSFC									
DATE INITIATED 0	6/18/98	ORIGINATOR'S CHG. NO.									
		SPONSO	R/CODE	D.	Qui	nn/EO-1	GPS	PHONE_		x6681	
EFFECTIVITY		CHANGE	CLASS		TYF	PE OF CHA	NGE				,
ITEM: GPS				1 11	WIL	ESTONE		INTERFACE	×	SOFTWARE	
S/N		PRELIMI				CUMENT	X	POWER		OTHER	
ITEM:		FORMAL			т	ST	- <u> </u>	WEIGHT			- LJ
				SOFTWA	RE A	FFECTED					
<u>s/N</u>		EO-1 K	JU-025								
ITEM:											
S/N											
PROBLEM				. ***							
The attached Prelin	ninary Interfa	ice Revi	ision No	otice (PI	RN)	to EO-1 i	CD-02	5 EO-1 S/C T	O GP	S NAVIGATI	ON
SENSOR Interface	Control Doc	ument (ICD) pro	ovides fo	or ch	anges to	the Inte	erface docum	ent. T	his PIRN	
includes suggested as such. The PIRN	cnanges tha will become	t WIII De an offic	incorpo al Inte	orated as	s an ange	interrace e once the	revisio EO-1	n and will be project Confi	gurati	on Control B	oard
(CCB) chairman sig						, 01100 1110	, 20 ,	p. 0,000 00	9	•,, ••,,,,,	
PROPOSED SOLUTION											
Approve the attache Board (CCB). The	ed PIRN 001	to EO-	·1 ICD-(0025 Ba	selin ficia	e issue by Lannrova	the E	O-1 Level II (Config	uration Conti Future chan	roi aes
will be initiated by s	signed on Pi submittal of C	Configur	ation C	hange R	eque	ests (CCR	s) and	Preliminary	nterfa	ce Revision	903
Notices (PIRNs) for	CCB approv	/al. Thi	s docun	nent is n	naint	ained by	the EC	-1 Configura	tion M	lanagement	
Office (CMO).											
		-									
BOARD ACTION	APPROVAL REQUIR		CRITIC	ALITY LE	VEL	PROC	UREME	NT CHANGE OF	RDER C	CLASSIFICATIO	N
APPROVE 🗹	LEVEL I HQS		EMEI	RGENCY		ROUTINE		URGENT	•	EMERGENCY	
APPROVE WITH CHANGE	LEVEL II GSF	c 🗵	URGI	ENT		OPTION 1		OPTION 1			
DISAPPROVE	LEVEL III		ROU		X	OPTION 2		OPTION 2			
WITHDRAW							_				
COMMENTS	<u></u>		<u></u>			L					
			1	10							
	CHAIRPE	RSON /	1/	//~				DATE	22	Jm98	
											
L		- //								3/2	8/96

Length A J4(A1) 12' 0"	<u>Serial #</u> TBD	Cable Type 0.190 Gore	
		<u>Cable Type</u>	
Cable Lengths and Conn	ectivity	,	
Cable Lengths and Conn	ectivity	,	
Main	Power Return to Spa	acecraft Bus	
	-		
/DC) Main	Power Input from St	pacecraft Bus	
Signal	Definition		
it Connector (J1) Sign	al Definition:		
vel (at system power u	p), the PCU will d	issipate less than	
age 10 W output level,	the PCU will diss	ipate less than 4 V	
age 10 W output level, (at system power up),	the PCU will dissipathe PCU will dissipate	pate 2 W. At the pate 3.2 W.	
50 10 015 101		REVISION:	
(. DOCUMENT NUMBER:	
		_	
		. CONTRACT NUMBER	
PRELIMINARY SPECIFICATION CHANGE NOTICE (PSCN) No			
CHANGE NOTICE (PSCN) N	i	.INIT. DATE: 6/18/98	
	5. CI'S AFFE SC TO GPS ICE er Conditioning Unit: age 10 W output level, at system power up), age 10 W output level, rel (at system power unit Connector (J1) Signal Main	SHANGE NOTICE (PSCN) No	

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	GODI	DARD SPACE FI EO-1	LIGHT CENTER	R
			ntrol number: EO- C to GPS ICD -02	
From	<u>To</u>	Length	Serial No	Cable Type
From: Atenna # 2 (Serial No. TBD)	P/SA J3(A2)	12' 0"	TBD	0.190 Gore
To: Atenna # 2 (Serial No. TBD)	P/SA J3(A2)	147"	1191972	0.190 Gore
From: Atenna # 3 (Serial No. TBD)	P/SA J2(A3)	12' 0"	TBD	0.190 Gore
To: Atenna # 3 (Serial No. TBD)	P/SA J2(A3)	147"	1191973	0.190 Gore
From: Atenna # 4 (Serial No. TBD)	P/SA J1(A4)	12' 0"	TBD	0.190 Gore
To: Atenna # 4 (Serial No. TBD)	P/SA J1(A4)	147"	1191974	0.190 Gore
From: P/SA J5	RPU J11	3'6"	TBD	RG-142
<u>To:</u> P/SA J5	RPU J11	45"	1191965	0.190 Gore
From: P/SA J6	PU J9	3'6"	TBD	RG-142
<u>To:</u> P/SA J6	RPU J9	45"	1191966	0.190 Gore
From: P/SA J7	PU J7	3'6"	TBD	RG-142
<u>To:</u> P/SA J7	RPU J9	45"	1191967	0.190 Gore

<u>To:</u> P/SA J8	RPU J9	45"	1191968	0.190 Gore
From: P/SA J8	PU J5	3'6"	TBD	RG-142
From	<u>To</u>	<u>Length</u>	Serial No	Cable Type

4. Change Section 6.1 Power Sequence:

From: 6. Set RPU configuration for EO-1 mission via packet 35 hex.

<u>To:</u> 6. Set RPU configuration for EO-1 mission via packet 35 & EO [Hex].

<u>From:</u> 7. Warm start: Transmit valid almanac to RPU via packet XX (skip if cold start).

To: 7. Warm start: Transmit valid almanac to RPU via packet **38 [Hex]** (skip if cold start).

<u>From:</u> 8. Warm start: Transmit valid S/C ephemeris to RPU via packet XX (skip if cold start).

<u>To:</u> 8. Warm start: Transmit valid S/C ephemeris to RPU via packet **E7 [Hex]** (skip if cold start).

From: 9. Warm start: Transmit valid current time to RPU via packet XX (skip if cold start).

To: 9. Warm start: Transmit valid current time to RPU via packet **2E [Hex]** (skip if cold start).

5.<u>Delete</u>: Section 8.1.1 <u>Fuses and Protection</u> "The spacecraft current to the RPU will be limited through a 2-A fuse."

6. Change: Section 3.2.1 Power Conditioning Unit:

From: "...male connector (PN 311P407-1P-B-15)....

<u>To:</u> "...male connector (PN 311P409-1P-B-15)....

From: "...female connector (PN 311P407-2S-B-15)....

<u>To:</u> "...female connector (PN 311P409-2S-B-15)....

5.<u>Delete:</u> Section 1.4 <u>Requirement Status</u>

6. Change the following in Section 3.2.3 <u>Preamplifier/Splitter Assembly:</u>

J1 to J4

J2 to J3

J3 to J2

J4 to J1

7. Change the following in Section 3.4 <u>Electrical Isolation:</u>

From: The GPS shall maintain isolation greater than 1 MW....

<u>TO:</u> The GPS shall maintain isolation greater than 1 **megaohm**...

8.Section 6.1 <u>Power on Sequence:</u> Item No. 5:

From: "When power is applied..."

To: "After the power-on pulse..."

9.<u>Add:</u> The following to Section 7.1 <u>Hardware:</u>

GSE roof antenna cable and amplifiers hat couplers (2) GPS simulators (2)